

TITLE: Disinfection of drinking water and swimming pool water

INVENTOR(S): Hamernik, Jiri

LANGUAGE: Czech

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ABSTRACT

Pathogenic microorganisms in flowing potable water are destroyed by using an electrical field and disinfectants formed in the elec. field by electrolysis of salts present in water. C electrodes are placed into a water pipeline and form an elec. field by using d.c. at 3-6V. A sensor for monitoring concentration of electrolysis products is mounted downstream and connected with a d.c. regulator, a transformer, a rectifier, and the electrodes. The arrangement eliminates use of conventional disinfectants. Thus, 0.5 L 0.5% NaCl soln./h was used as a model soln. By using electrolysis at 0.1 W, 10 Cl₂ and 2 mg O₃/L were formed.